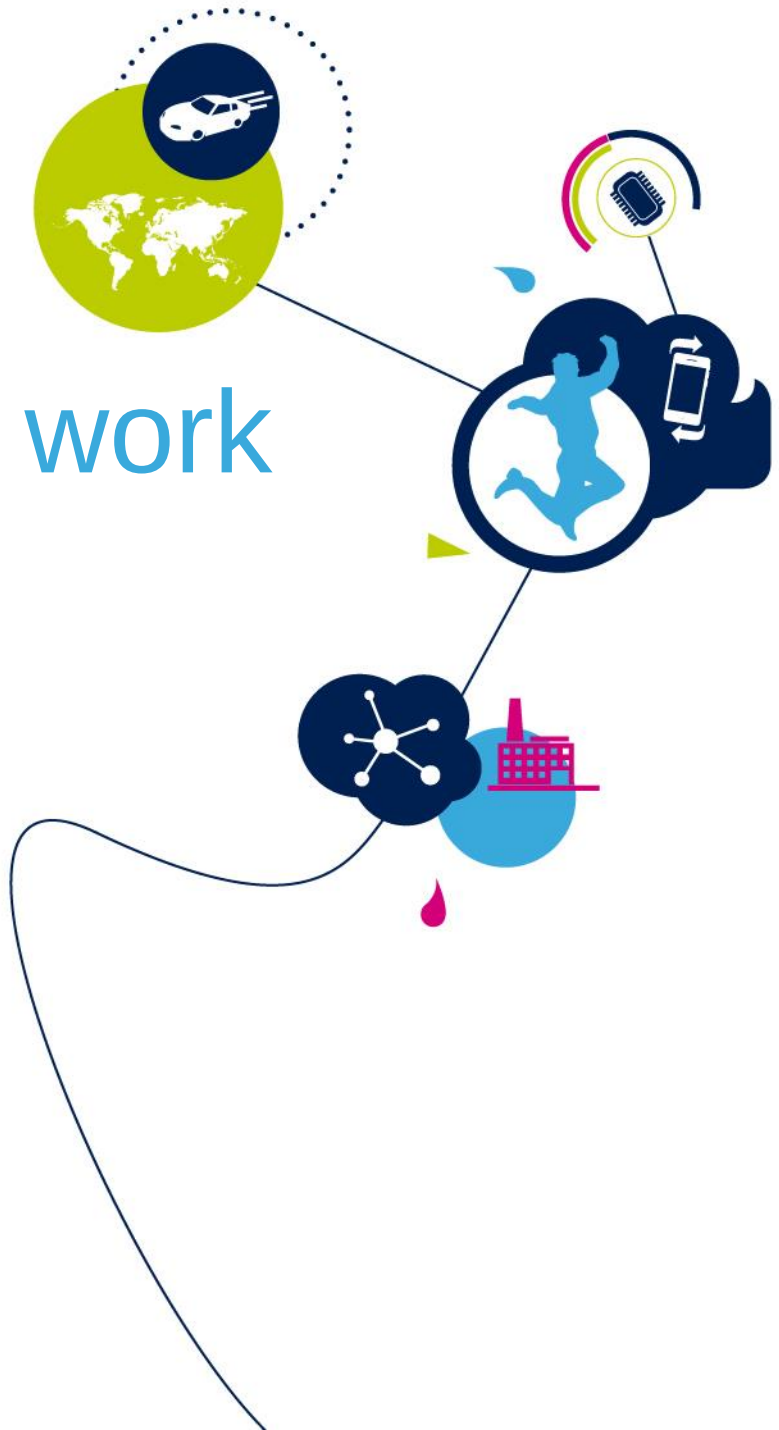
How to configure Windows to work with Teseo evaluation boards



ADG/Positioning – Marketing

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Introduction

Customers have reported certain issues that occur with Windows® when Teseo3 evaluation boards are plugged into the PC:

- Mouse pointer moves erratically and is impossible to control
- COM port number continuously increases

Both the issues are related to Microsoft Windows and NOT the ST Teseo3 evaluation platform;

For each issue, two solutions are proposed.

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Mouse pointer out of control

Symptom: Mouse pointer moves erratically and is impossible to control

Diagnosis: It's a well-known Microsoft Windows issue (https://support.microsoft.com/en-us/help/819036/overview-of-the-comdisable-tool); Windows recognizes the Teseo3 evaluation board as a 'serial mouse'.

The Microsoft serial-mouse driver takes control of the port (which is seen now as a mouse) and the mouse pointer becomes impossible to control.

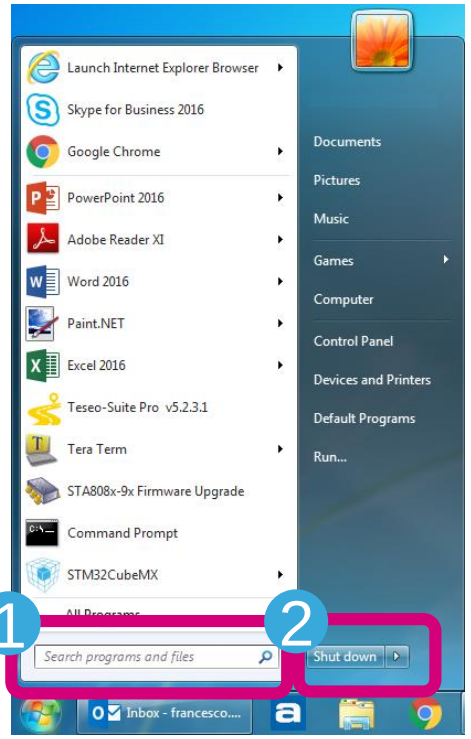
Solution 1

Disable the serial-mouse driver in the Windows Registry:

1. In the run-command entry, run the following command:

```
REG ADD "HKLM\SYSTEM\CurrentControlSet\Services\sermouse" /V Start /T REG_DWORD /F /D 4
```

2. Restart the PC



Note: The *serial-mouse driver* manages very old, legacy mice. So, even when disabled, standard mice and touchpads will work without problem.

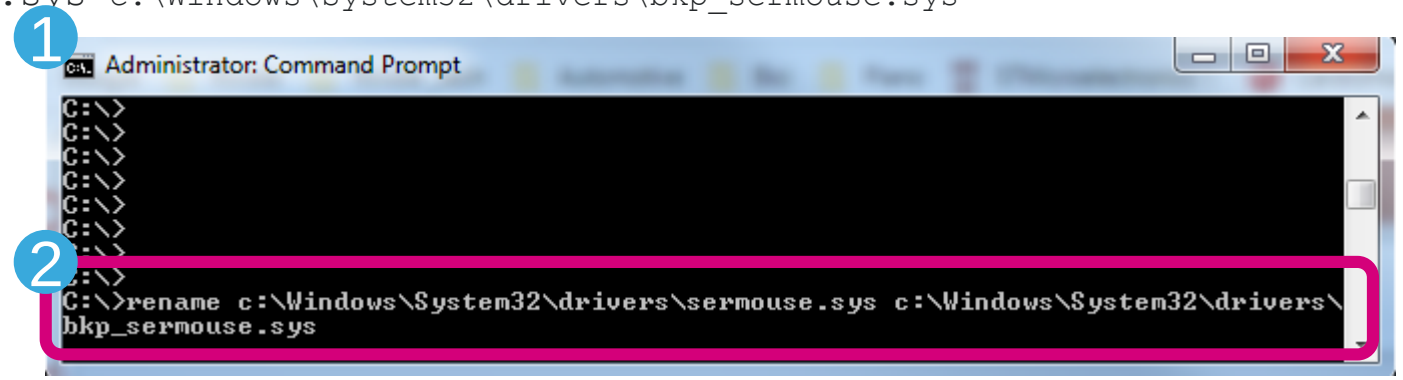
Solution 2

If Solution 1 doesn't work, rename the serial-mouse driver file:

1. In the Command Prompt, run as administrator the following command:

```
Rename c:\Windows\System32\drivers\sermouse.sys c:\Windows\System32\drivers\bkp_sermouse.sys
```

2. Restart the PC



Note: The *serial-mouse driver* manages very old, legacy mice. So, even when disabled, standard mice and touchpads will work without problem.

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COM port number continues to increase

Symptom: When plugging and unplugging Teseo3 evaluation boards, the COM port number seen by Windows continuously increases.

Diagnosis: Windows maintains the COM port locked and when a new evaluation board is plugged into the PC, a new COM port is instantiated. Restarting the PC will not free the COM port.

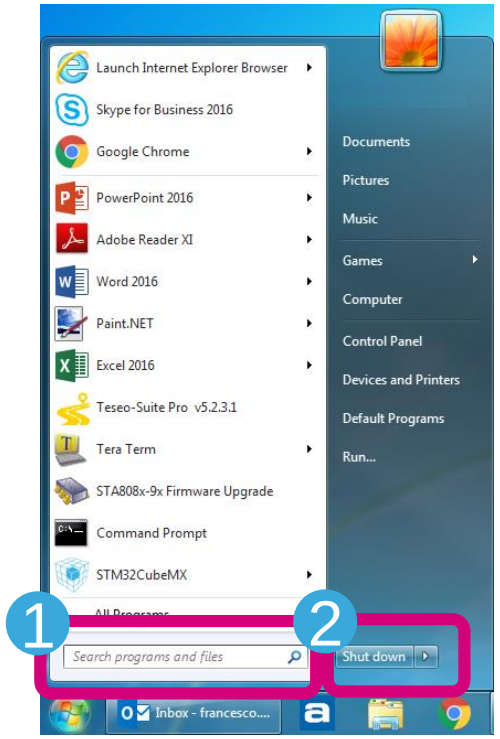
Solution 1

1. In the run-command entry, run the following command:

```
REG ADD "HKLM\SYSTEM\CurrentControlSet\Control\COM Name Arbiter" /V ComDB /T REG_BINARY /F /D 0000000000000000000000000000000000000000000000000000
```

2. Restart the PC

This command frees all COM ports, resetting the counter to zero



Solution 2

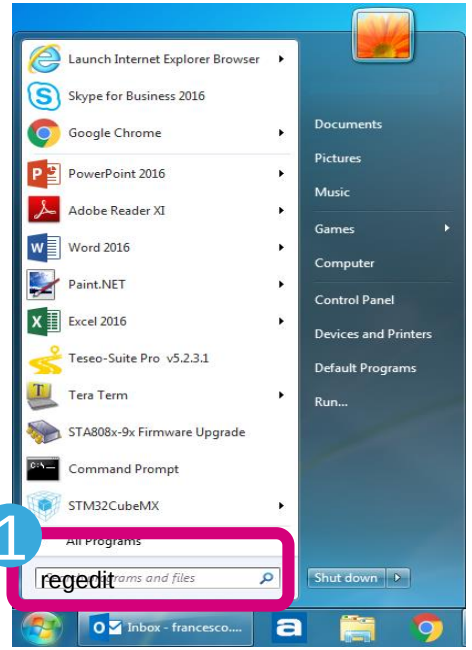
If Solution 1 doesn't work, use the Windows *regedit* tool:

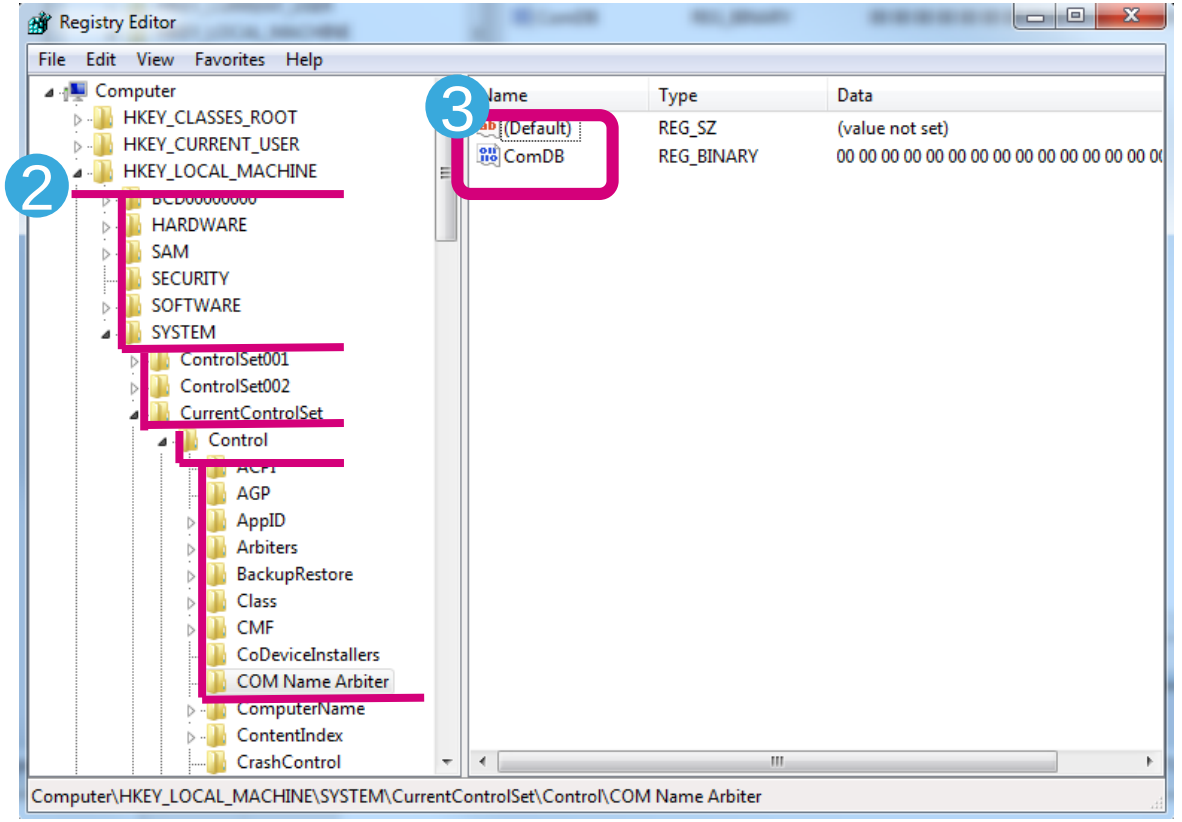
1. In the run-command entry, run 'regedit'
2. Follow the path:

```
HKLM\SYSTEM\CurrentControlSet\Control\COM Name Arbiter
```

3. Set '*ComDB*' to:

```
00000000000000000000000000000000000000
```





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Documents & related resources

All documents are available on: www.st.com

- **Teseo III**: **Webpage**
  - Datasheet of all PNs;
- **Teseo-Module**: **Webpage**
  - Datasheet
- **Teseo Suite**: **Webpage**
  - Datasheet
  - Install program